

AUSTRALIAN BUREAU OF STATISTICS Canberra

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UNEMPLOYMENT, SEPTEMBER 1978 PRELIMINARY ESTIMATES

INQUIRIES

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MAIN FEATURES

Note: Survey estimates are subject to sampling variability, as explained in paragraphs 8 to 10 below. Standard errors of estimates and of movements are shown in the tables.

- In September there were an estimated 324,200 unemployed persons looking for full-time work (6.1 per cent of the full-time labour force). This was a decrease of 7,900 since August.
- There were an estimated 59,500 unemployed persons looking for part-time work in September (5.9 per cent of the part-time labour force).
- The total number of unemployed persons in September was estimated at 383,700 — a decrease of 11,300 since August.

EXPLANATORY NOTES

Introduction

This bulletin contains preliminary unemployment estimates derived from the monthly population survey. Until February 1978, surveys were conducted in February, May, August and November each year. More detailed estimates are published in *The Labour Force (Preliminary)* (6202.0) and *The Labour Force* (6203.0).

The population survey

2. The survey is based on a multi-stage area sample of private dwellings (about 30,000 houses, flats, etc.) and non-private dwellings (hotels, motels, etc.), and covers about two-thirds of one per cent of the population of Australia. The information is obtained from the occupants of selected dwellings by carefully chosen and specially trained interviewers, the interviews generally being conducted during the two weeks beginning on the Monday between the 6th and 12th of each month. The information obtained relates to the week before the interview (i.e. the survey week). Before February 1978 the interviews were spread over four weeks, chosen so that the survey weeks generally fell within the limits of the calendar month.

Definitions

3. For purposes of the survey, *unemployed persons* are those aged 15 years and over who were not employed during the survey week and:

- (a) had actively looked for full-time or part-time work at any time in the four weeks up to the end of the survey week and:
 - (i) were available for work in the survey week, or would have been available except for temporary illness (i.e. lasting for less than four weeks to the end of the survey week); or
 - (ii) were waiting to start a new job within four weeks from the end of the survey week and would have started in the survey week if the job had been available then;
- or (b) were waiting to be called back to a full-time or part-time job from which they had been stood down without pay for less than four weeks up to the end of the survey week (including the whole of the survey week) for reasons other than bad weather or plant breakdown.

This definition of unemployed persons conforms closely to that recommended by the Eighth International Conference of Labour Statisticians (1954).

4. *Unemployed persons looking for first job* are those who had never worked for two weeks or more in a full-time job.

5. The *unemployment rate* for any group is the number unemployed expressed as a percentage of the labour force (i.e. employed plus unemployed) in the same group.

Revision of series

6. The survey estimates for February 1978 and subsequent months are based on population estimates derived from the 1976 Population Census, adjusted for under-enumeration, and were obtained by using a new sample and revised questionnaire. Estimates from August 1974 have been revised to the new basis and are published in the June 1978 issue of *The Labour Force* (6203.0). These estimates are not comparable with those in issues of this publication prior to February 1978.

Comparability of series

7. When comparing unemployment estimates for February 1978 and subsequent months with those for earlier periods it should be noted that with the introduction of monthly surveys the interviews are now conducted during a two-week period, whereas formerly the period was four weeks. (See paragraph 2.) This change of timing may affect the level of the figures for

any month, but particularly for months during which unemployment may be changing rapidly.

Reliability of the estimates

8. Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings they, and the movements derived from them, are subject to sampling variability; that is, they may differ from the figures that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the *standard error*, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included in the survey. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included in the survey, and about nineteen chances in twenty that the difference will be less than two standard errors.

9. Detailed information on standard errors of the estimates and of movements in the estimates have been published in the June 1978 issue of *The Labour Force* (6203.0).

10. Standard errors of unemployment estimates for the latest month and of estimates of movements since the previous month are contained in the tables. Examples of the use of these two sets of standard errors are given below.

- (a) The estimate of 324,200 unemployed persons looking for full-time work in September 1978 has a standard error of about 6,100 and therefore there are about two chances in three that the value that would have been produced if all dwellings had been included in the survey will fall within the range 318,100 to 330,300 and about nineteen chances in twenty that the value will fall within the range 312,000 to 336,400.
- (b) The estimate of movement in the number of unemployed persons looking for full-time work from August to September 1978 is a decrease of 7,900. The standard error of this estimate of movement is about 5,000 and therefore there are about two chances in three that if all dwellings had been included in the survey the estimate of movement would have been within the range -2,900 to -12,900 and about nineteen chances in twenty that it would have been within the range +2,100 to -17,900.

Seasonally adjusted estimates

11. The move to the higher level of unemployment since 1974 appears to have been accompanied by shifts in the pattern of seasonal variation. For this reason the publication of seasonally adjusted quarterly figures of

unemployment has been suspended. The matter will be kept under review. Calculation of seasonally adjusted monthly figures will not be possible until results for two or three years are available.

Comparability with Commonwealth Employment Service figures

12. The survey estimates of unemployed persons looking for full-time work may differ from the number of persons registered with the Commonwealth Employment Service (CES) as not employed, awaiting placement in full-time employment, for a number of reasons, including the following :

- (a) the survey estimates include some unemployed persons (particularly females) who did not register with the CES
- (b) they exclude persons who worked for one hour or more during the survey week, although they may have been registered with the CES — for example because they became unemployed during the week or worked for only short periods
- (c) they exclude persons registered as unemployed who found jobs or who were no longer looking for work but did not notify the CES of their changed situation
- (d) they represent averages over a period (see paragraph 2), whereas the CES figures refer to numbers registered on the Friday nearest the end of the month. This is particularly important at times when there are substantial rises or falls in unemployment or in registrations with the CES
- (e) they are subject to sampling variability. (See paragraphs 8 to 10).

Related publications

13. Users may also wish to refer to the following publications which are available on request :

The Labour Force (Preliminary) (6202.0)

The Labour Force (6203.0)

Information Paper : Questionnaires used in the Labour Force Survey (6232.0).

All publications produced by the ABS are listed in *Catalogue of Publications 1977* (1101.0), which is available free of charge from any ABS office.

Symbols and other usages

. . Not applicable

Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

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TABLE 1. UNEMPLOYED PERSONS (a)

Month	Number ('000)											
	Looking for full-time work						Unemployment rate (per cent)					
	Aged 15-19 years			Looking for part-time work			Looking for full-time work			Looking for part-time work		
Month	Looking for first job	Total	Aged 20 years and over	Total	Looking for part-time work	Total	Aged 15-19 years	Aged 20 years and over	Total	Aged 15-19 years	Aged 20 years and over	Total
MALES												
1977 -												
August	12.6	51.0	117.5	168.5	21.6	190.1	15.3	3.3	4.4	10.5	4.7	
November	16.2	48.1	117.0	165.1	18.0	183.1	15.7	3.3	4.3	7.4	4.5	
1978 -												
June	16.7	52.1	153.2	205.4	11.3	216.7	15.5	4.3	5.3	5.2	5.3	
July	14.1	52.8	149.5	202.4	8.7	211.1	15.7	4.2	5.3	4.2	5.2	
August	18.1	57.5	149.4	206.9	14.2	221.2	17.3	4.3	5.4	6.5	5.5	
September	20.2	53.6	150.5	204.1	13.5	217.6	16.3	4.3	5.3	6.2	5.4	
Standard error of -												
September estimates	2.0	3.0	4.6	5.2	1.7	5.3	0.9	0.1	0.1	0.8	0.1	
August to September movement	2.0	2.9	3.9	4.3	1.7	4.4	0.8	0.1	0.1	0.7	0.1	
FEMALES												
1977 -												
August	17.5	58.2	56.6	114.8	54.4	169.2	20.9	4.5	7.5	7.1	7.4	
November	16.8	51.9	60.4	112.4	51.4	163.7	19.2	4.9	7.5	6.5	7.1	
1978 -												
June	18.0	48.9	76.3	125.2	50.5	175.6	17.2	6.1	8.2	6.5	7.6	
July	17.8	49.3	73.8	123.0	43.9	166.9	17.3	5.9	8.0	5.6	7.2	
August	20.8	49.5	75.6	125.1	48.7	173.8	17.9	6.1	8.3	6.1	7.5	
September	19.5	48.9	71.2	120.1	46.0	166.1	17.7	5.8	8.0	5.8	7.2	
Standard error of -												
September estimates	2.0	2.9	3.4	4.2	2.8	4.8	1.0	0.3	0.3	0.4	0.2	
August to September movement	2.0	2.7	3.1	3.7	2.7	4.1	1.0	0.2	0.2	0.3	0.2	
PERSONS												
1977 -												
August	30.1	109.2	174.1	283.3	76.0	359.3	17.8	3.7	5.3	7.8	5.7	
November	33.0	100.0	177.4	277.4	69.4	346.8	17.4	3.8	5.2	6.7	5.5	
1978 -												
June	34.6	101.1	229.5	330.5	61.8	392.3	16.3	4.8	6.1	6.2	6.1	
July	31.9	102.1	223.3	325.4	52.6	378.0	16.4	4.7	6.0	5.3	5.9	
August	38.9	107.0	225.0	332.1	62.9	395.0	17.6	4.8	6.2	6.2	6.2	
September	39.7	102.5	221.7	324.2	59.5	383.7	16.9	4.7	6.1	5.9	6.0	
Standard error of -												
September estimates	2.7	3.9	5.3	6.1	3.2	6.5	0.6	0.1	0.1	0.3	0.1	
August to September movement	2.5	3.5	4.5	5.0	3.0	5.3	0.6	0.1	0.1	0.3	0.1	

(a) For definitions see page 1. See paragraph 2 for details of change in timing of the survey from February 1978. Estimates for the latest month are preliminary, subject to revision. For information on standard errors see paragraphs 8 to 10.

TABLE 2. UNEMPLOYED PERSONS (a), STATES AND TERRITORIES

State or Territory	Number ('000)					Unemployment rate (per cent)				
	Looking for full-time work					Looking for full-time work				
	Aged 15-19 years	Aged 20 years and over	Total	Looking for part-time work	Total	Aged 15-19 years	Aged 20 years and over	Total	Looking for part-time work	Total
New South Wales —										
1978 — August	34.2	75.8	110.0	23.0	133.0	17.5	4.5	5.9	6.8	6.0
September	32.5	78.9	111.4	21.6	133.0	16.8	4.7	5.9	6.4	6.0
Standard error of —										
September estimates	2.5	3.6	4.1	2.1	4.3	1.3	0.2	0.2	0.6	0.2
August to September movement	2.2	2.9	3.3	1.9	3.4	1.1	0.2	0.2	0.5	0.2
Victoria —										
1978 — August	26.1	55.2	81.3	18.7	100.0	17.3	4.3	5.6	6.8	5.8
September	22.2	50.2	72.4	15.6	88.0	15.1	3.9	5.0	5.7	5.1
Standard error of —										
September estimates	2.0	2.7	3.1	1.7	3.3	1.4	0.2	0.2	0.6	0.2
August to September movement	1.9	2.4	2.6	1.7	2.8	1.1	0.2	0.2	0.5	0.1
Queensland —										
1978 — August	16.8	37.8	54.6	7.9	62.5	15.1	5.5	6.9	5.4	6.6
September	16.3	36.0	52.3	9.6	61.9	14.7	5.3	6.6	6.4	6.6
Standard error of —										
September estimates	1.4	1.9	2.2	1.1	2.4	1.3	0.3	0.3	0.7	0.3
August to September movement	1.2	1.6	1.8	1.0	1.8	1.0	0.2	0.2	0.7	0.2
South Australia —										
1978 — August	15.0	24.8	39.8	4.4	44.2	23.4	5.8	8.1	4.2	7.4
September	17.6	24.9	42.5	4.4	46.9	26.3	5.8	8.6	4.2	7.8
Standard error of —										
September estimates	1.1	1.3	1.5	0.6	1.6	1.6	0.3	0.3	0.6	0.3
August to September movement	0.9	1.0	1.2	0.6	1.2	1.3	0.2	0.2	0.6	0.2
Western Australia —										
1978 — August	9.6	22.5	32.0	5.1	37.1	16.9	5.6	7.0	5.4	6.7
September	8.6	21.4	30.0	4.5	34.5	15.3	5.3	6.5	4.8	6
Standard error of —										
September estimates	0.9	1.2	1.4	0.7	1.5	1.6	0.3	0.3	0.7	0.3
August to September movement	0.8	1.0	1.1	0.6	1.2	1.3	0.2	0.2	0.6	0.2
Tasmania —										
1978 — August	3.5	6.1	9.6	*	10.9	15.9	4.8	6.4	*	6.2
September	3.5	6.6	10.1	*	11.1	15.7	5.1	6.7	*	6.3
Standard error of —										
September estimates	0.4	0.6	0.6	..	0.7	1.8	0.5	0.4	..	0.4
August to September movement	0.3	0.4	0.5	..	0.5	1.3	0.3	0.3	..	0.3
Northern Territory —										
1978 — August	*	*	*	*	*	*	*	*	*	*
September	*	*	2.6	*	2.7	*	*	5.8	*	5.3
Standard error of —										
September estimates	..	..	0.5	..	0.5	..	..	1.1	..	1.0
Australian Capital Territory —										
1978 — August	*	*	3.2	2.5	5.7	*	*	3.9	13.6	5.6
September	*	*	3.0	2.6	5.6	*	*	3.5	14.3	5.4
Standard error of —										
September estimates	..	..	0.5	0.5	0.6	..	..	0.6	2.7	0.6
August to September movement	..	..	0.4	0.4	0.5	..	..	0.4	2.2	0.5

For footnote see Table 1.

* Subject to sampling variability too high for most practical uses. See paragraph 8.